

Problems Menu



“Scientific Notation Operations”

Select 8 problems from this menu to use in your quiz. You must choose at least 6 entrees and a choice of two problems from the starters and/or desserts.

Any student, who wishes to create their own problems, must have them pre-approved by the teacher.

Note: Your quiz must include examples of addition, subtraction, multiplication, division and powers raised to another power.

Starters

1	$(3.95 \times 10^3) + (7.8 \times 10^3)$	8	$(8.23 \times 10^4) - (3.02 \times 10^4)$
2	$(4.3 \times 10^6) - (5.9 \times 10^5)$	9	$(8.2 \times 10^{-1}) + (5 \times 10^{-1})$
3	$(3.2 \times 10^5) \div (8 \times 10^8)$	10	$(1.9 \times 10^{-3}) + (7 \times 10^{-3})$
4	$(2 \times 10^1) \times (6 \times 10^4)$	11	$(9.9 \times 10^1) - (8.5 \times 10^3)$
5	$(3 \times 10^{-3}) \times (8 \times 10^2)$	12	$(6 \times 10^{-6}) \div (2 \times 10^4)$
6	$(1.2 \times 10^1) \div (6 \times 10^{-8})$	13	$(2 \times 10^{-3}) \times (8 \times 10^{-4})$
7	$(6.8 \times 10^3) \times (4.54 \times 10^6)$	14	$(3 \times 10^{-9}) \times (9 \times 10^{-1})$

Entrees

15	$(7.83 \times 10^{-2}) - (2.20 \times 10^{-3})$	26	$(4.42 \times 10^{-3}) \times (4 \times 10^{-2})$
16	$(5.3 \times 10^5) - (8.8 \times 10^4)$	27	$(3.6 \times 10^6) - (3.6 \times 10^5)$
17	$(3.2 \times 10^8) + (7.8 \times 10^6)$	28	$(1.042 \times 10^{-1}) \times (4.002 \times 10^{-5})$
18	$(1.92 \times 10^{-2}) \div (2.3 \times 10^6)$	29	$(2.3 \times 10^5) + (7.7 \times 10^3)$
19	$(4.9 \times 10^{-15}) \div (7 \times 10^{-9})$	30	$(1.4 \times 10^7) \div (2 \times 10^{10})$
20	$(5.6 \times 10^{-18}) \div (7 \times 10^{-10})$	31	$(3 \times 10^2) \times (5 \times 10^6)$
21	$(5.9 \times 10^3) - (6.4 \times 10^1)$	32	$(1.6 \times 10^1) - (5.9 \times 10^3)$
22	$(3.9 \times 10^8) + (2.4 \times 10^9)$	33	$(1.4 \times 10^1) + (3.8 \times 10^{-1})$
23	$[(9.3 \times 10^{-3}) + (2.8 \times 10^{-3})]^0$	34	$(6 \times 10^{-4}) \times (2 \times 10^4)$
24	$[(7 \times 10^{-8}) \times (1 \times 10^5)]^3$	35	$[(1.5 \times 10^{17}) \div (5 \times 10^7)]^2$
25	$[(9.2 \times 10^6) + (7.8 \times 10^5)]^{-1}$	36	$[(1.3 \times 10^{-4}) + (6.9 \times 10^{-5})]^{-2}$

Desserts

37	A contractor buys a parcel of land to establish an industrial park. The tract of land measures 5.36×10^3 meters by 1.38×10^4 meters. What is the area of this tract in square meters?	41	The city of Steubenville has commissioned a company to design a flag for the city. They want the dimensions of the flag to be 1.26×10^4 cm by 8.40×10^3 cm. What will the area of this flag be in square centimeters?
38	$5 \times 10^0 + 1.7 \times 10^0$	42	$[3.9 \times 10^8 + 2.4 \times 10^9]^{-2}$
39	The speed of light is 3×10^8 meters/second. If the sun is 1.5×10^{11} meters from earth, how many seconds does it take light to reach the earth? Express your answer in scientific notation	43	Use the equation $speed = distance/time$ to find the speed of a car that travels 3.7×10^6 meters in 3.10×10^5 seconds.
40	$[6.9 \times 10^{-4} + 1.5 \times 10^{-6}]^2 + (2.01 \times 10^{-6})$	44	$(1.2 \times 10^0) \div (4 \times 10^{-6})$

